

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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APPLICATION NO.	ICATION NO. FILING DATE FIRST NAMED INVENTOR		INVENTOR	ATTORNEY DOCKET NO.		
09/849,920	05/04/01	DALLY		W	2789.1001-00	
MM91/1001			7	EXAMINER		
JAMES M. SMITH, ESQ. HAMILTON, BROOK, SMITH & REYNOLDS, P.C.				COX,C		
TWO MILITIA	RUUK, SMITH	⅓ REYNOLDS, P.	С. [ART UNIT	PAPER NUMBER	
LEXINGTON M		99		2816		
					10/01/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

<u> </u>								
Office Action Summary		Application	No.	Applicant(s)				
		09/849,920		DALLY ET AL.				
		Examiner	,	Art Unit				
		Cassandra (2816				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status 1)⊠	Responsive to communication(s) filed on 5/	/4/01						
2a)□			on-final					
3)	since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims A) \(\sum_{\text{claim}} \) 1.10 in lore pending in the application								
4) Claim(s) 1-10 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.								
/								
6)⊠ Claim(s) <u>1-10</u> is/are rejected. 7)□ Claim(s) is/are objected to.								
8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
	The specification is objected to by the Exami	iner.						
•	Γhe drawing(s) filed on is/are: a)□ acc		pjected to by the Ex	aminer.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received.								
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)								
2) Notice	e of References Cited (P10-692) e of Draftsperson's Patent Drawing Review (PT0-948) nation Disclosure Statement(s) (PT0-1449) Paper No(s	5		al Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Saito (U.S. Patent No. 5,432,481).

In reference to claim 1, Saito discloses Figure 1, a frequency generating circuit (5) which generates an output signal at a frequency rate that is a multiple of an input frequency (column 9, lines 7- 17), the phase comparator providing a phase comparison of an edge of the input signal (DATA) and an edge of the output signal (CLOCK) and controlling the frequency generating circuit based on the comparison (column 8, line 65-column 9, line 6). The same applies to claim 6.

In reference to claim 2, Saito discloses in Figure 1 a window signal (Window) that is true during edges of the input signal (DATA) and the output signal (CLOCK) to be compared (as shown in Figure 4). The same applies to claim 7.

In reference to claim 3, Saito discloses in column 9, lines 65-68, that the window signal is produced by a divider (Q5) dividing the second timing signal (2CLK) into two parts, which is seen as the phase shifted version of the second timing signal. The same applies to claim 8.

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In reference to claim 4, Saito discloses in Figure 1 that the frequency generating circuit (5) is a voltage-controlled oscillator. The same applies to claims 5, and 9-10.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1-10 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim1-52 of U.S. Patent No. 6,275,072. Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been obvious to one skilled in the art at the time of the invention that although the claims in the present application are broader than the claims of U.S. Patent No. 6,275,072 the elements claimed in the present application are covered by the claims of the U.S. Patent No. 6,275,072. Those elements which are seen to be covered by the patent (6,275,072) include a phase comparator which directly compares the phase of the edges of the input and output signals in combination with a frequency generating circuit which generates an output

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signal at a rate that is a multiple of input frequency; a divider; a window signal; and the

method of operation.

Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Wilson et al. (U.S. Patent No. 5,278,702) discloses a phase

comparator that receives a window signal. Marbot (U.S. Patent No. 5,260,608),

Mukaine et al. (U.S. Patent No. 5,514,990), and Halepete (U.S. Patent No. 5,786,715)

all disclose phase-locked loops that function as frequency multipliers.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Cassandra Cox whose telephone number is 703-306-

5735. The examiner can normally be reached on Monday-Thursday from 7:00 AM to

4:30 PM and on alternate Fridays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy Callahan can be reached on 703-308-4876. The fax phone number

for this art unit is 703-308-7722. Any inquiry of a general nature or relating to the status

of this application or proceeding should be directed to the receptionist whose telephone

number is 703-308-0956.

CC

September 28, 2001

Toan Tran

Primary Examiner

Noan Van

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